

Introduction

HMC Vision and Mission

Implementation examples

FAIR building blocks

- K0 Use PID Metadata (K)
 - K1.0 use ORCID
 - K1.1 Centers encourage
 - K1.2 Employees maintain
 - K1.3 Data infrastructures implement
 - K2.0 Use ROR
 - K2.1 Centers maintain ROR
 - M2.2 Repos refer to ROR
 - K3.0 Use PIDInst
 - K3.1 Techs Maintain PIDInst
 - K3.2 Researchers refer to PIDInst
 - K3.3 Repos refer to PIDInst
 - K4.0 Use IGSN
 - K4.1 Organizations support use of IGSN
 - K4.2 Sample Curators register IGSN
 - K4.3 Researchers assign IGSNs to samples
 - K4.4 Repos record and refer to IGSN
 - K5.0 Use Crossref DOI
 - K5.1 Publication Repos register Crossref DOI
 - K5.2 Repos refer to Crossref DOI
 - K6.0 Use DataCite DOI
 - K6.1 Repos register and refer to DataCite DOI
 - K6.2 Publisher and Authors refer to DataCite DOI
 - Comments on other PID Types
- S0 Use Semantic (S) Resources
 - S1.0 Decompose complex semantic metadata according to community-recognized frameworks
 - S1.1 Measurable quantities
 - S1.2 Measurement devices
 - S2.0 Annotate your metadata with terms from community-recognized controlled vocabularies
 - S2.1 Define your needs and derive requirements for controlled vocabularies
 - S2.2 Reuse existing controlled vocabularies wherever possible
 - S2.3 Evaluate the suitability of controlled vocabularies based on defined criteria and available tools
 - S2.4 Adopt recommended controlled vocabularies
 - S2.5 Adopt recommended terminology services
 - S2.6 Carefully consider how to deal with missing terms
 - S3.0 Use metadata schemata that are semantically usable
 - S3.1 Use Schema.org compliant code with datasets
 - S3.2 Repos should implement Schema.org compliant code
 - S3.3 ETC

- [S4.0 Ensure to address essential criteria when building a vocabulary](#)
 - [I0 Provision of Interfaces \(I\) and Exchange Formats](#)
 - [I1.0 Agree on Protocol](#)
 - [I1.1 Define REST Interface](#)
 - [I1.2 Define OAI-PMH Interface](#)
 - [I1.3 Define CSW Interface](#)
 - [I2.0 Define Exchange Format](#)
 - [I2.1 Use DataCite Metadata Format for Exchange](#)
 - [I2.2 Use ISO 19115 Metadata Format for Exchange](#)
 - [I2.3 Use schema.org Metadata Format for Exchange](#)
 - [I2.4 Use DCAT v3 Metadata Format for Exchange](#)
 - [B0 Which data do we want to harmonize](#)
 - [C0 Define Data Containers](#)
 - [F0 Implementation of Data Formats](#)
 - [F1.0 NETCDF Guidelines](#)
 - [L0 Use Licenses](#)
 - [Q0 Implement Quality Information](#)
 - [P0 Track Provenance](#)
 - [R0 Define Stakeholder Roles](#)
 - [V0 Value Data Publications](#)
-

[Stakeholder Instructions](#)

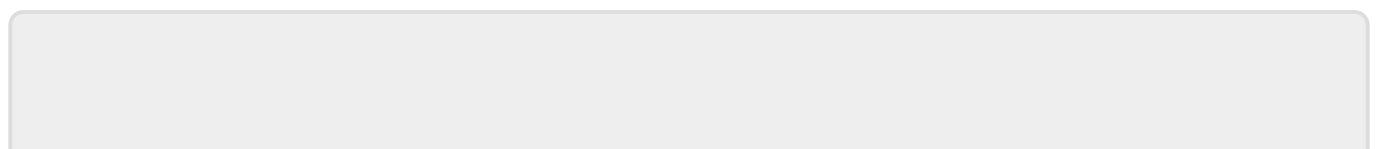
- for [data management implementation on an organizational \(multi center\) level](#)
- for [center management](#)
 - for [technicians \(lab / experiments\)](#)
 - for [center administration](#)
- for [researchers \(data producers\)](#)
- for [data stewards / managers / repositories](#)
- for [librarians](#)

* [Instructions for Re-using data](#)

[Schema.org](#)

* [Glossary](#)

* [Template for recommendations](#)



From:
<https://earth-and-environment.helmholtz-metadaten.de/wiki/> - HMC
**Earth and Environment
Community Wiki**

Permanent link:
<https://earth-and-environment.helmholtz-metadaten.de/wiki/doku.php?id=wiki:interfaces:sidebar&rev=1762446901>

Last update: **2025/11/06 16:35**

